

with said saw teeth and are thus driven to rotate in unison with the moving saw teeth.

6. The thrust roller assembly of Claim 3 wherein said thrust roller is prefabricated as a gear with cogs corresponding to the gullets of a saw blade of matching tooth design.

7. A device to add reverse and forward thrust support to a single-edged blade guide assembly of prior art comprising:

said thrust roller assembly of Claim 3 to counter thrust against the toothed edge;

a circumferentially smooth prior art thrust support roller to counter thrust against the smooth trailing edge of a single-edged bandsaw blade;

a bracket to adjustably support said thrust roller assembly of Claim 3 parallel to the plane of the cut or kerf; and,

a means to attach said bracket to said prior art blade guide assembly.

8. A bandsaw with opposing thrust support rollers, including:

a double-edged bandsaw blade with saw teeth;

said bandsaw blade having consistently uniform tooth shape;

a blade guide with thrust support to both forward and rearward directions;

said blade guide having thrust support rollers with cogs circumferentially arrayed to correspond tangentially with the gullets of said double-edged bandsaw blade;

said blade guide having one of its thrust support rollers smooth and round to accommodate a single-edged blade;

said blade guides having means to prevent side-to-side deflection of said blade.

ABSTRACT

The blade guides of this invention depart from prior art by using radially opposed thrust support rollers between which a double-edged saw-toothed bandsaw blade is supported against forward and rearward feed pressure simultaneously. Bandsaws of this invention cut both ways to expedite dead end detail sawing and repetitive industrial applications where large workpieces would otherwise have to be repositioned between cuts. The thrust support rollers of this invention act as gear wheels to support a bandsaw blade against its gullets while allowing the cutting edges to freely pass through.